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Assistant Commissioner for Patents
Box PATENT APPLICATION
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): WATANABE, Michito
HARA, Makoto; YATABE, Takashi

For: NETWORK PHOTOGRAPH SERVICE SYSTEM

Enclosed are:

☒ A specification consisting of 27 pages

☒ 8 sheet(s) of Formal drawings

☒ An assignment of the invention

☒ Certified copy of Priority Document(s)

☒ Executed Declaration ☒ Original ☐ Photocopy

☐ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27

☒ Preliminary Amendment

☐ Information Disclosure Statement, PTO-1449 and reference(s)

Other _____

The filing fee has been calculated as shown below:

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FOR	NO. FILED	NO. EXTRA	RATE	FEE		RATE	FEE
BASIC FEE	***** ***** *****	***** ***** *****	***** ***** *****	\$760.00	or	***** ***** *****	\$380.00
TOTAL CLAIMS	9 - 20 =	0	x18 = \$	0.00	or	x 9 = \$	0.00
INDEPENDENT	2 - 3 =	0	x78 = \$	0.00	or	x 39 = \$	0.00
MULTIPLE DEPENDENT CLAIM PRESENTED	<u>no</u>		+260 = \$	0.00	or	+130 = \$	0.00

TOTAL \$ 760.00

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X A check in the amount of \$ 800.00 to cover the filing fee and recording fee (if applicable) is enclosed.

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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. 1.16 or under 37 C.F.R. 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By

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IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicants: Michito WATANABE et al.

Serial No.: New

Group:

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Examiner:

For: NETWORK PHOTOGRAPH SERVICE SYSTEM

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
BOX PATENT APPLICATION
Washington, D.C. 20231
Sir:

February 9, 1999

The following preliminary amendments and remarks are respectfully submitted in connection with the above-identified application.

IN THE CLAIMS:

Claim 3, line 1, please delete "or 2"

Claim 4, lines 1 and 2, please change "any one of claims 1 to 3" to --claim 1--

Claim 5, lines 1 and 2, please change "any one of claims 1 to 4" to --claim 1--

Claim 8, line 2, please delete "or 7"

Claim 9, lines 1 and 2, please change "any one of claims 6 to 8" to --claim 6--

* * * R E M A R K S * * *

The above amendment to the claim removes the multiple dependency, and places the application into better form prior to examination.

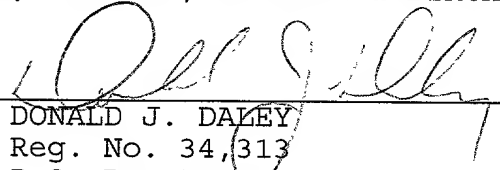
Favorable action on the above-identified application is respectfully requested.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §1.16 or under 37 C.F.R. §1.17; particularly, extension of time fees.

Respectfully submitted,

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NETWORK PHOTOGRAPH SERVICE SYSTEM

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a network photograph service system which provides digital photograph services such as a printing service on a network.

Description of the Related Art

10 As a form of a digital photograph service, a network photograph service which stores (registers) a digital image of a user in a service provider system and receives a printing order or the like via a network such as the Internet has been known.

15 In such a service, when a user requests registration of digital images from a laboratory upon requesting film development for example, a registration ID is issued to the user. The photographs recorded on the film are digitized at the laboratory or at a dedicated service center, stored in a system of the service provider, and disclosed on the network. The user can browse through the registered images by accessing the system of the service provider via the network.

20 Meanwhile, users of electronic mail have been increasing, following the spread of the Internet. Basically, only text can be sent and received as electronic mail via the Internet. Therefore, in order to send and receive binary data such as an
25 image, the binary data need to be converted into text data and

a recipient needs to carry out a reverse conversion. As formats defining such conversion, Base64, BinHex, UUENCODE and the like are known. Since this kind of conversion function is incorporated in electronic mail software in many cases, a user without special knowledge of the conversion formats can easily send and receive an image. For this reason, photographs recorded by digital cameras are sent daily, being attached to electronic mail messages.

However, in order to send a photograph recorded by a film camera as electronic mail, the photograph recorded on a film needs to be digitized first so that binary data representing the photograph are obtained. In order to obtain binary data, a user can digitize a photograph by himself/herself by purchasing equipment such as a film scanner. However, as a more convenient method, the user can have an image recorded in a recording medium such as a CD-ROM by such a digital photograph service as described the above. Alternatively, when an image downloading service is provided in a digital photograph service, an image being viewed may be downloaded to a personal computer of the user.

However, it is time-consuming for the user to obtain a recording medium such as a CD-ROM after placing an order for a service to output an image to the recording medium. It is possible to request the service to output images to a recording medium upon requesting image registration. However, in this

case, since which image will be attached to an electronic mail message is not decided upon the request for image registration, all images end up being recorded, which is costly.

On the other hand, in the method wherein an image is obtained by downloading, only a necessary image can be obtained as required. However, since an image data size is generally large, time and cost (a communication charge) are necessary upon downloading the image to a personal computer. Furthermore, time and cost are also necessary when the downloaded image is sent to a mail server as an attachment to an electronic mail message.

SUMMARY OF THE INVENTION

Based on consideration of the above problems, an object of the present invention is to provide a network photograph service system which transmits electronic mail with an image being attached thereto so that exchange of photographs via electronic mail can be carried out easily and at low cost.

A first network photograph service system of the present invention provides various kinds of services using an image by disclosing the image on a network, and comprises:

image storing means for storing at least one image;

image selecting means for enabling a service user to select one or a plurality of images from the image or the images stored in the image storing means, by enabling the image or the images in the image storing means to be viewed on the network;

mail generating means for generating an electronic mail message including the image or the images selected by the image selecting means as an attachment to the electronic mail message;

destination address specifying means for enabling the service user to specify a destination address of the electronic mail message; and

mail transmitting means for transmitting the electronic mail message to the destination address specified by the destination address specifying means.

The "image storing means" specifically means an image database which stores and manages images received from users (service users). Each image is stored and managed, in a large-capacity hard disc or the like, as an image file having a file name decided upon registration thereof according to a predetermined rule (for example, a combination of a registration ID and the date of the image registration). The image file can be read from the hard disc upon necessity. The image storing means does not necessarily correspond to one recording medium, and images may be stored in a distributive manner in a plurality of hard discs of one computer or in a plurality of hard discs of a plurality of server computers.

The "image selecting means" displays stored images collectively on a screen of a personal computer of a user who has accessed the system via the network, and enables image selection by a number input or specification by a mouse. The

input entered by the user is provided to the system as information indicating the selected image.

It is preferable for the images displayed collectively by the image selecting means to be limited to images registered by the user, as in a conventional network system. However, since the present invention is applicable not only to the images registered by a user but also to images provided by the service provider, the function to restrict viewing by the image selecting means is not necessarily required.

The "mail generating means" converts an image as binary data to text data as an attachment document having predetermined management information, and attaches the document to an electronic mail message.

As has been described in the above, since the manner of attaching binary data varies depending on the type of personal computer handling the electronic mail, such as Base64 for a Windows computer, and UUENCODE for a UNIX machine, it is preferable for the user to be able to select the attachment mode in advance. In other words, it is preferable for the above network photograph service system to further comprise attachment mode selecting means for enabling the service user to select an attachment mode by presenting a plurality of attachment modes as formats to attach the image so that the mail generating means can carry out the image attachment according to the format selected by the attachment mode selecting means.

5 The "destination address specifying means" is a function to display an input box on the screen of the personal computer of the user, and to obtain an electronic mail address input by the user. It is preferable for the destination address specifying means to enable specification of a plurality of destination addresses for one electronic mail message so that the same message is sent to a plurality of addressees.

10 The "mail transmitting means" is a function to transmit to the network a text file comprising a comment and an image, with information showing a title and the destination address as a mail header.

15 In order to enable a comment to be transmitted together with an image, it is preferable for the network photograph service system to further comprise comment inputting means for enabling the service user to input a comment on the image selected by the image selecting means so that the mail generating means generates an electronic mail message including the input comment as text.

20 The "comment inputting means" is a function to display an input box on the screen of the personal computer of the user and to obtain the comment input by the user to the system, for example. A comment may be attached to each image or to a group of images.

25 An electronic mail message transmitted on the Internet has a mail header which is attached to the mail and indicates

a title, a destination address, the sender's address and the like. A mail header is automatically generated by electronic mail software or the like, based on information pre-set by the user or set for each mail. General electronic mail software automatically sets the address of the user of the software as the sender's address.

When the same manner as by the above general electronic mail software is adopted in the network photograph service system, the mail address of the service provider is set as the sender's address. When a recipient of the mail does not use the address of the sender, this manner does not cause a problem. However, some electronic mail software automatically generates a reply message by referring to the address of the sender described in the mail message and setting the address as the destination address of the reply mail. Therefore, it is preferable for the service user's mail address to be set as the address of the sender.

In other words, it is preferable for the network photograph service system to further comprise user address setting means which enables the service user to set an electronic mail address of the service user so that the mail transmitting means describes the electronic mail address set by the user address setting means as the address of the sender of the electronic mail message.

The first network photograph service system described in

the above sends an image as an electronic mail message. A second network photograph service system of the present invention which will be explained next sends an address of an image rather than the image itself.

5 In other words, the second network photograph service system of the present invention provides various kinds of services using an image by disclosing the image on a network, and comprises:

image storing means for storing at least one image;

10 image selecting means for enabling a service user to select one or a plurality of images from the image or the images stored in the image storing means, by enabling the image or the images stored in the image storing means to be viewed on the network;

15 mail generating means for generating an electronic mail message including an address or addresses of the image or the images selected by the image selecting means;

20 destination address specifying means for enabling the service user to specify a destination address of the electronic mail message; and

mail transmitting means for transmitting the electronic mail message to the destination address specified by the destination address specifying means.

25 The "image storing means", the "image selecting means", the "destination address specifying means" and the "mail

transmitting means" are the same as in the first network photograph service system.

The "mail generating means" describes an address of an image in an electronic mail message. The "address of an image" herein referred to means information needed to specify the location and the file of an image. More specifically, the mail generating means describes the address of an image in the form of a clickable URL (including the name of an image file) of a web page wherein the image is disclosed. By using the clickable URL, when a recipient of the mail clicks on the characters indicating the URL, a browser automatically starts and accesses the URL.

As in the first network photograph service system of the present invention, it is preferable for the second network photograph service system to further comprise comment inputting means for enabling the service user to input a comment on an image selected by the image selecting means so that an electronic mail message including the input comment as text is generated by the mail generating means.

Furthermore, it is preferable for the destination address specifying means to enable specification of a plurality of destination addresses for one electronic mail message.

Moreover, it is preferable for the second network photograph service system to further comprise user address setting means for enabling the service user to set his/her mail

address so that the mail transmitting means describes in the electronic mail message, the mail address set by the user address setting means as the address of the sender of the electronic mail message.

5 The first network photograph service system of the present invention generates and transmits an electronic mail message with an image being attached thereto by storing, managing and disclosing pre-registered user's images on the network and then by receiving, on the network, image selection by the image selecting means and destination address specification by the destination address specifying means. In a conventional system, a user has to input an image to his/her computer or the like by downloading data of the image via a network or via a recording medium. The present invention does not need to obtain an image in such a manner and thus has excellent data transmission efficiency. For a user, cost and time for downloading or outputting to a recording medium are saved, and an image exchange by electronic mail can be carried out more easily.

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20 At this time, if a comment on an image to be transmitted is received on the network and the comment is sent together with the image, the user can attach any comment in the same manner as generating an image-attached electronic mail message.

25 When a mode of attaching an image can be selected, the image can be attached in a mode appropriate for an addressee.

When the attachment mode is changed in accordance with an addressee of an electronic mail message, a user has to have plural kinds of conversion programs (encoders) according to addressees on a conventional system, which is not required by the system of the present invention.

If the address of a sender can be set freely by a user and the mail address set by the user is set as the address of the sender of an electronic mail message to be transmitted, a reply message will be transmitted to the user who has requested the transmission of the original mail, if a recipient of the original mail uses an automatic reply function of the mail software or the like.

Meanwhile, the second network photograph service system of the present invention generates and transmits an electronic mail message as by the first network photograph service system. However, the second network photograph service system sends the address of an image rather than the image itself. Only when a recipient of the mail message tries to obtain the image by accessing the system based on the address of the image, is the image transmitted. Therefore, the data transmission efficiency improves more than in the first network photograph service system.

Like the first network photograph service system, the second network photograph service system can add values by enabling comment attachment or sender's address setting.

Since the first network photograph service system transmits the image itself, a recipient may have a problem with his/her mail box being inundated with images having been sent, when a large number of images are transmitted to the recipient or the mail box is small. However, since the received images can be viewed immediately after opening the electronic mail message, which is convenient for the recipient.

On the other hand, in the case of the second network photograph service system, a recipient needs to access the system based on the image address having been sent, in order to view the image. However, since no image is included, the size of an electronic mail message is small and it does not cause a problem with a mail box as has been described in the above. Moreover, it is more convenient to send an address alone when the decision to view the image is left to a recipient.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is an illustration showing an outline of a network photograph service system;

Figure 2 is an illustration showing a configuration of the network photograph service system;

Figure 3 is an illustration showing a form of an electronic mail transmission service;

Figure 4 is a flow-chart showing an example of image-attached mail transmission processing;

Figure 5 is an illustration showing an example of a screen

whereon images to be transmitted are selected;

Figure 6 is an illustration showing an example of a screen whereon various kinds of information is input;

Figure 7 is an illustration showing an electronic mail transmission service other than the one in Figure 3; and

Figure 8 is a flow-chart showing an example of image-address specifying mail transmission processing.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Hereinafter, embodiments of the present invention will be explained with reference to the accompanying drawings. An outline of a network photograph service system will be explained first.

Figure 1 shows the outline of a network photograph service system as an embodiment of the present invention. As shown in Figure 1, the system provides a user 1 with a digital photograph service on a network by exchanging via the Internet 5 information between a service center 2 which receives an order for a service and a mini-laboratory 3 which outputs a print or a special laboratory 4 comprising special equipment. At this time, a connection to the Internet may be realized by any known form such as a dedicated line, a dial-up connection, or a CATV network. However, since the service center and the special laboratory have heavy communication loads, a connection by a high-speed dedicated line is preferable. In the explanation below, a server computer installed in the service center 2 is called a

center server, and a server computer installed in the mini-laboratory 3 or the special laboratory 4 is called a laboratory server.

Input of image data to the above system is carried out at the mini-laboratory 3. The mini-laboratory usually carries out simultaneous printing wherein a film is developed and the developed film is read by a scanner 7 to generate prints by a printer 9. If registration of images is requested at the time of requesting the simultaneous printing for example, the image data read from the film are registered with a database managed by a laboratory server 8, and a document wherein a registration ID of the images and a registration password are described is provided to the user together with the prints.

Figure 2 shows the system in Figure 1, with attention being paid to internal configurations of a personal computer 6 of the user 1, a center server 12 at the service center 2, and the laboratory server 8 at the mini-laboratory 3 or the special laboratory 4.

As has been described above, when the user requests the image registration, the image data having been read from a film 13 by the scanner 7 are registered by an image registering function 17 of the laboratory server 8 with a high resolution image database 18 managed by the laboratory server 8. Furthermore, low resolution image data (hereinafter called a thumbnail image) having resolution lower than that of the above

image data are generated by the laboratory server 8 and registered by the image registering function 17 with a low resolution image database 16 managed by the center server 12.

In this embodiment, image data to be stored in the high resolution image database have 4 bases of pixels (approximately 1024 × 1792) which is necessary for printing in an L size at 300 dpi. On the other hand, a thumbnail image for browsing has 1/4 of a base of pixels (approximately 368 × 256).

The center server 12 at the service center 2 provides various kinds of services such as a printing service to the user 1 by disclosing on the network the thumbnail images registered with the low resolution image database 16.

The above-described services are provided in the form of a web page by a WWW application server 15. A program necessary to use such services has been provided to the user 1 in advance. In the example shown in Figure 2, a plug-in 22 for a digital photograph service is provided to the user. By being incorporated with a browser 21, the plug-in 22 enables browsing, downloading, and ordering printing of the registered images by using the browser 21. The user can browse through the thumbnail images by accessing the web page of the center server 12 after installing the plug-in 22 to the WWW browser 21 such as Netscape Navigator. Furthermore, the user can request various kinds of digital photograph services, such as printing of the image he/she views.

When the user has input order information on the image to be printed, such as the image ID, the quantity and the size of prints, in order to request the printing service, an order file 14 describing the order information in a predetermined data format is generated and transferred to the application server 15 of the center server 12.

The WWW application server 15 finds the laboratory storing the high resolution image data corresponding to the requested image according to the image ID described in the order file, and transfers the order file 14 to the laboratory server 8 at the laboratory having been found. The laboratory server 8 analyzes the content of the order file 14 by using an order file analyzing function 20, reads image data to be printed from the high resolution image database 18, carries out image processing (not shown) such as enlargement or reduction upon necessity on the image data having been read out, and orders printing from the printer 9 by transferring the processed image data.

In the above system, an electronic mail transmission service which is characteristic to the present invention is provided by the WWW application server 15 in the center server 12 in the form of a web page, as the printing service is. The electronic mail transmission service provided by the WWW application server 15 will be explained next.

The WWW application server 15 requests the user who has

accessed the system to input a user ID and a user password. One user ID is issued to one user, which is different from the registration ID. The system manages various kinds of information regarding users by the user IDs.

5 The WWW application server 15 compares the user ID and the user password having been input with a user ID and a user password registered with and managed by a user information database (not shown). When the user ID and the user password input by the user are valid, a main menu is shown on a screen. When the user selects an electronic mail transmission option from the main menu, the electronic mail transmission service which will be explained below is provided.

66623"55994210
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20 Figure 3 shows a form of the electronic mail transmission service. A user A (using a personal computer 6a) requests the center server 12 to transmit an electronic mail message to a user B (using a personal computer 6b) in this example. As shown in Figure 3, information such as an ID 23 of an image to be transmitted to the user B, a comment 24, a destination address 25 (a mail address of the user B), and a sender's address 26 (a mail address of the user A) is provided from the user A to the service provider. Based on this information, the center server 12 generates an electronic mail message 29 which has the comment 24 as main text and an image file 27 indicated by the image ID 23 in the low resolution image database 16 as an attachment document. The center server 12 sets the address 26

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of the user A as the sender's address and transmits the electronic mail message to the user B at the destination address 25. In this embodiment, the image file 27 is assumed to be a file compressed according to the JPEG format.

5 Figure 4 is a flow-chart showing image-attached mail transmission processing carried out by the WWW application server 15. As shown in Figure 4, the WWW application server 15 first displays images registered by the user who is identified by the user ID (Step 101). A screen 31 shown in Figure 5 is an example of display at Step 101. The user selects an image to be transmitted from images 32 on the screen by clicking the image using a mouse. In the example shown in Figure 5, the selected images are distinguished from the rest by being surrounded by thick frames. When the number of the registered images is large and the display needs a plurality of pages, the images are selected by repeating the same procedure on each page. The selected images are confirmed by the user when he/she clicks a confirm button 33.

20 The WWW application server 15 obtains the IDs of the images having been selected before the confirmation by the confirm button 33 as image specifying information to specify the images to be transmitted (Step 102).

25 The WWW application server 15 displays boxes for a comment on the selected images, the address of a destination, the address of the sender (the mail address of the user) and the like (Step

103). A screen 34 shown in Figure 6 is an example of the display at Step 103. In the example shown in Figure 6, a comment input box 36, a destination address input box 37, a sender's address input box 38, and images 35 having been selected as targets of transmission are shown. The destination address needs to be input, and up-to-10 mail addresses can be input. The comment and the sender's address are not necessarily input. When no sender's address is input, the mail address of the service provider is set as the address of the sender in the mail header.

The information input in these boxes is confirmed by the user when he/she clicks a transmit button 39, and obtained by the WWW application server 15 (Step 104). The WWW application server 15 obtains image files indicated by the image specifying information obtained at Step 102 from the low resolution image database 16, converts the obtained image files from binary to text format. The WWW application server 15 generates an image-attached electronic mail message (Step 105) by attaching the converted image files to the comment obtained at Step 104.

The WWW application server 15 then sets (Step 106) the destination address and the sender's address obtained at Step 104 in the mail header, and transmits the electronic mail message (Step 107).

With respect to the format of an electronic mail transmission service, another format shown in Figure 7 is also possible. Figure 7 shows the case where the user A (using the

personal computer 6a) requests the center server 12 to send an electronic mail message to the user B (using the personal computer 6b), as in Figure 3. Information such as the ID 23 of the image to be transmitted to the user B, the comment 24, the destination address 25 (the mail address of the user B), the sender's address (the mail address of the user A) and the like is provided from the user A to the service provider, as in the case shown in Figure 3.

However, in the format shown in Figure 7, the image file 27 is not attached to an electronic mail message 30 generated and transmitted by the center server 12, and an address 28 of the image file 27 is described instead of the image file attachment. In other words, the address 26 of the user A is set as the address of the sender of the electronic mail message including the comment 24 and the address 28 of an image, and transmitted to the user B at the destination address 25. Based on the address 28, the user B can access the image file 27 stored in the low resolution image database 16 of the center server 12.

Figure 8 is a flow-chart showing an example of the image-address specifying mail transmission processing carried out by the WWW application server 15. Steps 100 through 104, and Steps 106 and 107 are the same as in the image-attached mail transmission processing shown in Figure 4. Therefore, their explanation is not repeated here. In the format of Figure 7,

the WWW application server 15 generates the electronic mail message (Step 201) describing the image-file address specified by the image specifying information obtained at Step 102 and the comment obtained at Step 104. Since the size of the electronic mail message 30 is comparatively small in the format shown in Figure 7, a problem such as inundating a recipient's mail box is unlikely to occur.

Two forms of services have been explained in the above. In each embodiment, the user can select an image to be transmitted while viewing registered images on the predetermined screen, and transmit his/her image to another user easily and at low cost, simply by inputting a comment and an electronic mail address.

In the case where an image is sent by electronic mail, in order to secure viewing of the image by a recipient, it is necessary to set the image attachment mode and the image file format in accordance with the system of the recipient. Therefore, the WWW application server 15 may provide a plurality of attachment modes and image file formats as choices so that a user can select from the choices.

In the above embodiments, an image file managed by the low resolution image database 16 of the center server 12 is transmitted. However, an image file managed by the high resolution image database 17 of the laboratory server 8 may be transmitted by an instruction from the center server 12 to the

laboratory server 8.

What is claimed is:

1. A network photograph service system which provides various kinds of services using an image by disclosing the image on a network, the network photograph service system comprising:

image storing means for storing at least one image;

image selecting means for enabling a service user to select one or a plurality of images from the image or the images stored in the image storing means, by enabling the image or the images in the image storing means to be viewed on the network;

mail generating means for generating an electronic mail message including the image or the images selected by the image selecting means as an attachment to the electronic mail message;

destination address specifying means for enabling the service user to specify a destination address of the electronic mail message; and

mail transmitting means for transmitting the electronic mail message to the destination address specified by the destination address specifying means.

2. A network photograph service system as claimed in claim 1, further comprising comment inputting means for enabling the service user to input a comment on the image selected by the image selecting means, characterized by that

the mail generating means generates an electronic mail message including the input comment as text.

3. A network photograph service system as claimed in

claim 1 or 2, further comprising attachment mode selecting means for enabling the service user to select an attachment mode by presenting a plurality of attachment modes as formats for attaching the image, characterized by that

5 the mail generating means attaches the image according to the attachment mode selected by the attachment mode selecting means.

10 4. A network photograph service system as claimed in any one of claims 1 to 3, wherein the destination address specifying means enables specification of a plurality of destination addresses for one electronic mail message.

15 5. A network photograph service system as claimed in any one of claims 1 to 4, further comprising user address setting means for enabling the service user to set their electronic mail address thereof, characterized by that

the mail transmitting means describes the mail address set by the user address setting means as the address of the sender of the electronic mail message.

20 6. A second network photograph service system which provides various kinds of services using an image by disclosing the image on a network, the network photograph service system comprising:

image storing means for storing at least one image;

25 image selecting means for enabling a service user to select one or a plurality of images from the image or the images

stored in the image storing means, by enabling the image or the images stored in the image storing means to be viewed on a network;

mail generating means for generating an electronic mail message including an address or addresses of the image or the images selected by the image selecting means;

destination address specifying means for enabling the service user to specify a destination address of the electronic mail message; and

mail transmitting means for transmitting the electronic mail message to the destination address specified by the destination address specifying means.

7. A network photograph service system as claimed in claim 6, further comprising comment inputting means for enabling the service user to input a comment on the image selected by the image selecting means, characterized by that

the mail generating means generates an electronic mail message including the input comment as text.

8. A network photograph service system as claimed in claim 6 or 7, wherein the destination address specifying means enables specification of a plurality of destination addresses for one electronic mail message.

9. A network photograph service system as claimed in any one of claims 6 to 8, further comprising user address setting means for enabling the service user to set a mail address thereof,

characterized by that

the mail transmitting means describes the mail address set by the user address setting means as the address of the sender of the electronic mail message.

ABSTRACT OF THE DISCLOSURE

Image transmission via electronic mail is carried out more easily and at low cost. An image file managed by a database of a system of a service provider (center server) is disclosed on a network. The center server obtains various kinds of information (such as an image ID to specify the image to be transmitted and a destination address) input to the system by a service user who has viewed the disclosed image. Based on this information, the center server reads the specified image file from the database, converts the image file into an attachment document format, generates an image-attached electronic mail message, and transmits the electronic mail message to the specified address.

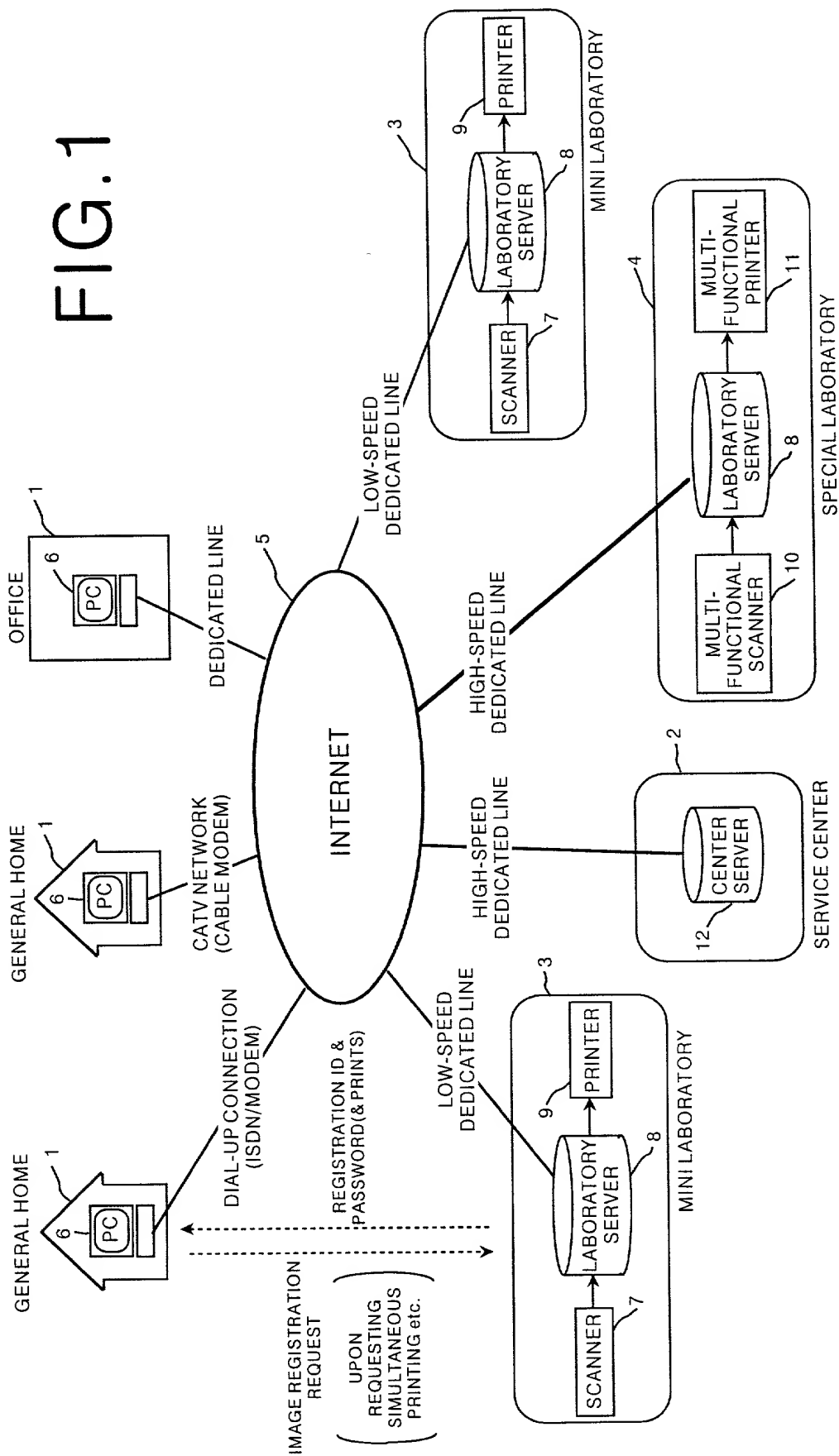


FIG.3

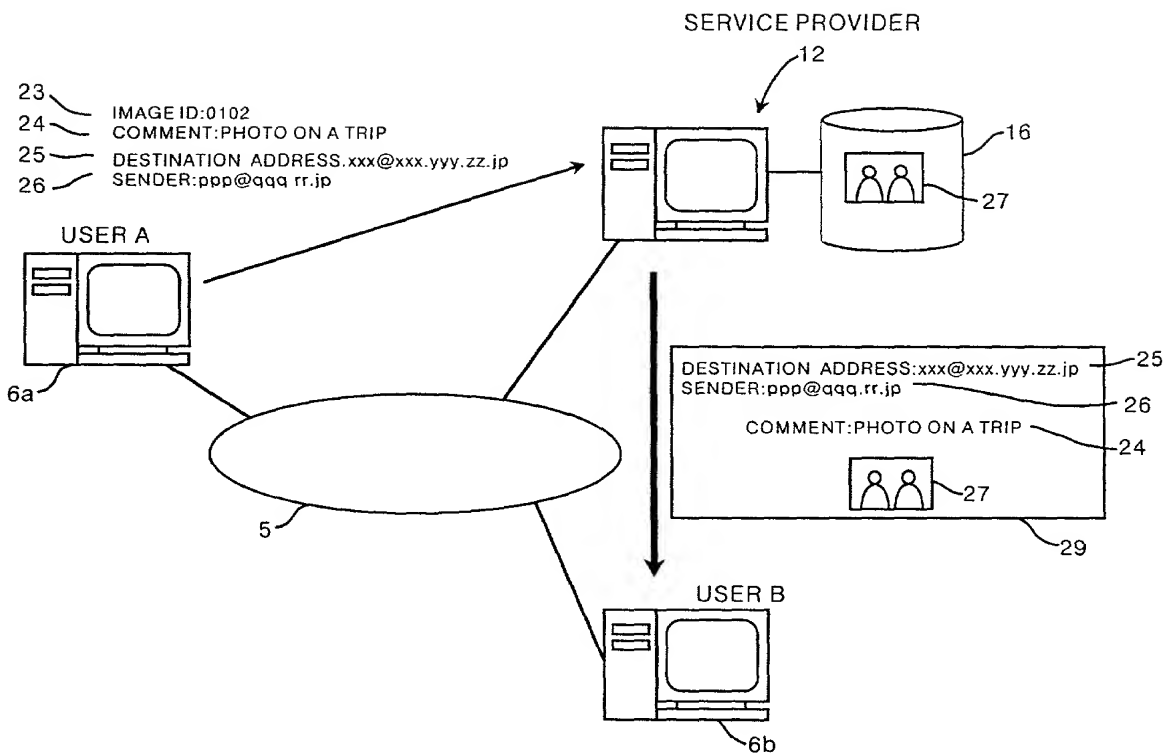


FIG. 4

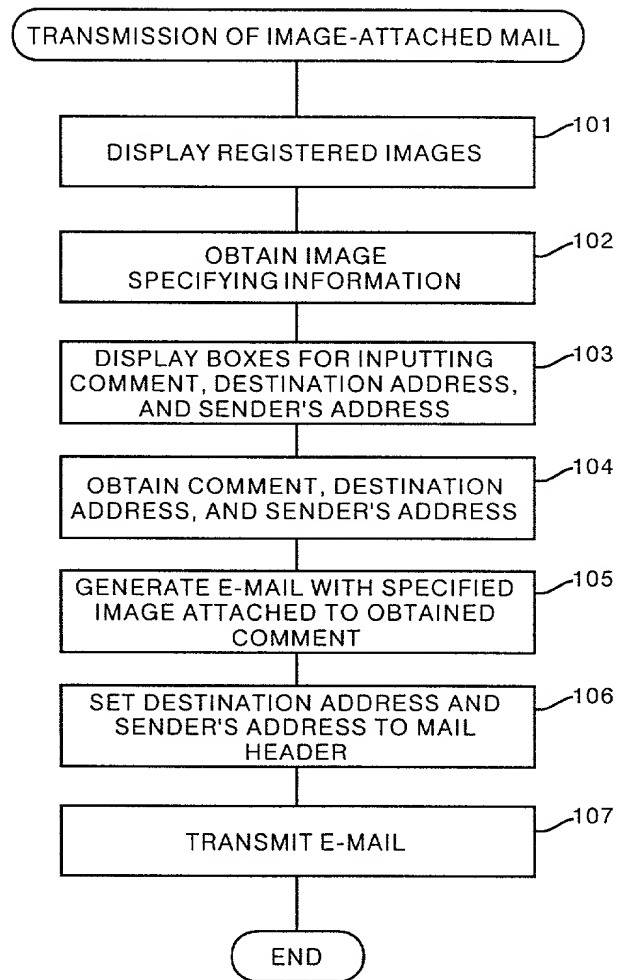


FIG.5

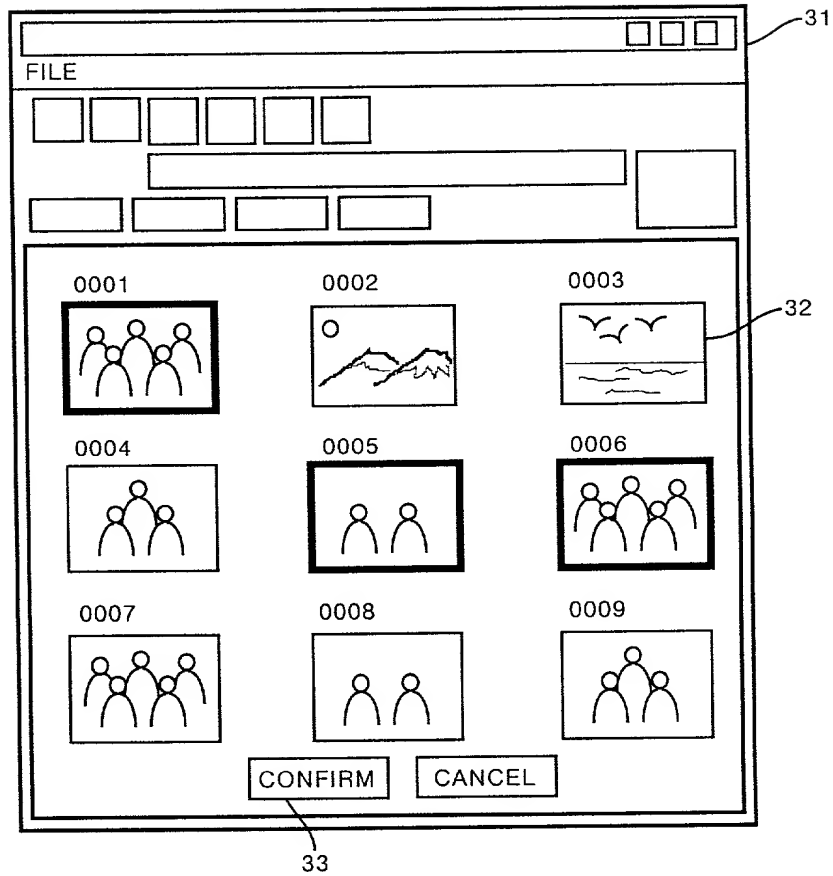


FIG. 6

FIG. 6 is a schematic diagram of a graphical user interface (GUI) window 34. The window 34 has a title bar at the top with the word "FILE" and three small square icons on the right. Below the title bar, there is a row of six small square icons. Below this row, there is a long horizontal rectangular box and a smaller square box to its right. Below these, there is a row of four small rectangular boxes. The main content area of the window 34 is enclosed in a larger rectangular frame 35. Inside frame 35, there are three columns of icons. The first column is labeled "0001" and contains an icon of four people. The second column is labeled "0005" and contains an icon of two people. The third column is labeled "0006" and contains an icon of four people. Below these icons, there is a text label "COMMENT" followed by a long horizontal rectangular input field 36. Below the input field 36, there is a text label "DESTINATION ADDRESS(UP TO 10 DESTINATIONS)" followed by a long horizontal rectangular input field 37. Below the input field 37, there is a text label "SENDER'S ADDRESS" followed by a long horizontal rectangular input field 38. At the bottom of the frame 35, there are two buttons: "TRANSMIT" and "CANCEL". The entire window 34 is labeled with the number 39 at the bottom.

0001 0005 0006

COMMENT

DESTINATION ADDRESS(UP TO 10 DESTINATIONS)

SENDER'S ADDRESS

TRANSMIT CANCEL

FIG. 7

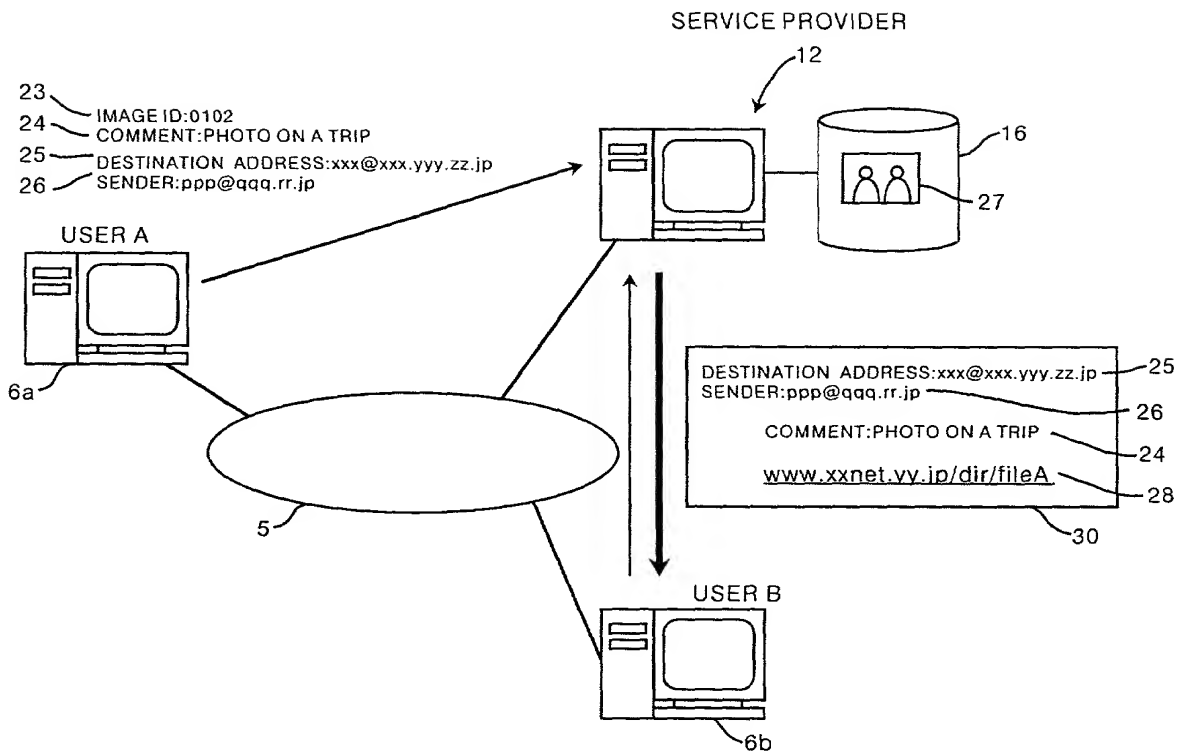
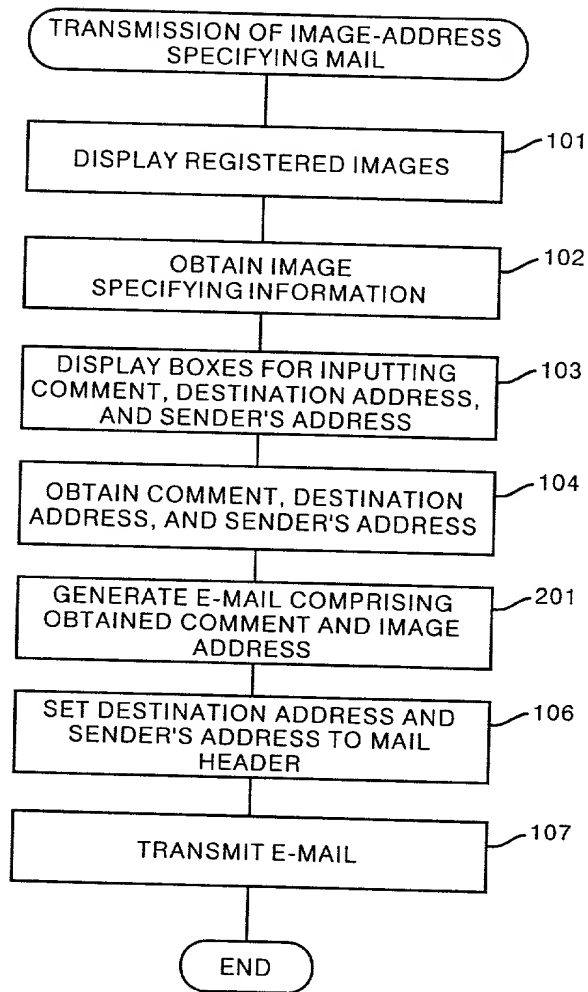


FIG. 8



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Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

As a below named inventor, I hereby declare that:

Michito Watanabe, Makoto Hara and Takashi Yatabe
My residence, post office address and citizenship are as stated next to my name. c/o Fuji Photo Film Co., Ltd.
798 Miyanodai, Kaisei-machi, Ashigarakami-gun, Kanagawa-ken, Japan
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

"NETWORK PHOTOGRAPH SERVICE SYSTEM"

上記発明の明細書（下記の欄でx印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ 月 日に提出され、米国出願番号または特許協定条約国際出願番号を _____ とし、
(該当する場合) _____ に訂正されました。

☐ was filed on _____
as United States Application Number or
PCT International Application Number
_____ and was amended on
_____ (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米 国以外の国の少なくとも一カ国を指定している特許協力条約 365 (a) 項に基づき国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

Prior Foreign Application(s)

外国での先行出願

(patent) 27180/1998

(Number)

(番号)

Japan

(Country)

(国名)

(Number)

(番号)

(Country)

(国名)

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(Application No.)

(出願番号)

(Filing Date)

(出願日)

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(Application No.)

(出願番号)

(Filing Date)

(出願日)

(Application No.)

(出願番号)

(Filing Date)

(出願日)

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I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

09/02/1998

(Day/Month/Year Filed)

(出願年月日)

(Day/Month/Year Filed)

(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)

(出願番号)

(Filing Date)

(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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委任状: 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁理士、または代理人の氏名及び登録番号を明記のこと)

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